Index of Claims

Application/Control No.

09/723,972 Examiner

Harold E. Dodds, Jr.

Applicant(s)/Patent under Reexamination

YAMAGUCHI ET AL.

Art Unit

2167

| √ | Rejected |
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| = | Allowed  |

(Through numeral)
Cancelled

Restricted

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| Claim Date                                       |          |              |             |                    |           | Cla      | im       | Date     |   |       |              |           |                 |          | CI       | aim     |         | Date    |         |                |       |             |            |              |                 |                |          |           |           |               |          |           |
|--|----------|--------------|-------------|--------------------|-----------|----------|----------|----------|---|-------|--------------|-----------|-----------------|----------|----------|---------|---------|---------|---------|----------------|-------|-------------|------------|--------------|-----------------|----------------|----------|-----------|-----------|---------------|----------|-----------|
| _  | <u></u>  | ភ            |             |                    |           |          |          | - 1      |   |       | l _          | <u>a</u>  | 1 1             |          |          |         |         |         |         |                |       | _           | ল          |              |                 |                |          |           |           |               |          |           |
| Final  | Original | 6/20/05      |             |                    |           |          |          |          |   |       | Final        | Original  |                 |          |          |         |         |         |         |                |       | Final       | Original   |              |                 |                |          |           |           |               |          |           |
| "  | ō        | 136          |             |                    | ı         |          |          |          |   |       | L.           | ŏ         |                 |          | ı        | -       |         |         |         |                |       | <u> </u>    | ō          |              |                 |                |          |           |           | ı             | ı        |           |
|  | 1        | 1            |             | $\vdash$           | $\dashv$  | $\dashv$ | ┥        | $\dashv$ |   |       |              | 51        | $\vdash$        | +        | +        | +       | ╁       | ╫       | +-      | $\dashv$       |       |             | 101        | $\vdash$     | $\vdash$        | $\dashv$       |          |           | -         | $\dashv$      | -        | $\dashv$  |
| ├─┤  | 2        | 1            | $\dashv$    | $\vdash$           | $\dashv$  | $\dashv$ |          | -        | _ |       | <del> </del> | 52        | $\vdash$        | +        | +        | ┰       | ╌       | ╁╴      | +       | $\dashv$       |       |             | 102        | ┝            |                 |                | $\dashv$ | $\dashv$  | -         | $\dashv$      | $\dashv$ | $\dashv$  |
| $\vdash$   | 3        | V            |             | H                  | $\dashv$  | 1        | _        |          | - |       |              | 53        | Н               | +        | +        | ╅       | +       | 十       | +-1     | Н              |       |             | 103        |              | Н               | $\dashv$       | $\dashv$ | $\dashv$  | _         | -             | $\dashv$ | ᅥ         |
|  | 4        | 1            |             | П                  | 寸         | ヿ        | 寸        |          |   |       |              | 54        | П               | _        | $\neg$   | +       | $\top$  | +       |         | П              |       |             | 104        | -            |                 |                |          | $\dashv$  |           |               | T        | ヿ         |
|  | 5        | 1            |             |                    |           |          |          |          |   |       |              | 55        |                 |          | $\top$   | 1       | 1       |         |         |                |       |             | 105        |              |                 | $\neg$         | 一        | ヿ         | $\neg$    | $\neg$        |          | ヿ         |
|  | 6        | 1            |             |                    |           |          |          |          |   |       |              | 56        |                 |          |          |         |         |         |         |                |       |             | 106        |              |                 |                |          |           |           | $\Box$        |          |           |
|  | 7        | 1            |             | Ш                  | $\dashv$  | $\dashv$ | _        | $\perp$  |   |       |              | 57        | Ш               |          |          | $\perp$ |         |         |         |                |       |             | 107        |              |                 |                |          |           |           | $\Box$        |          |           |
|  | 8        | 1            |             | Ш                  | $\dashv$  | $\dashv$ | _        | _        |   |       |              | 58        | Ш               | _        | 4        | 4       | _ _     |         | $\perp$ | Щ              |       |             | 108        | _            |                 | _              | _        | _         | ļ         | 4             | $\dashv$ | _         |
| <u>├</u>   | 9        | 1            | -           | $\vdash$           |           | $\dashv$ |          | -        | _ |       | ļ            | 59        | $\vdash$        |          | +        | +       | 4       | _       | $\perp$ |                |       |             | 109        |              | Н               | $\dashv$       |          | -         |           | -             | -        | 4         |
| <b></b>  | 10       | 0            |             |                    | $\dashv$  |          |          | $\dashv$ |   |       |              | 60        | H               | $\dashv$ | +        | +       | +       | +       |         |                |       |             | 110        | <u> </u>     | $\vdash$        | -              |          | $\dashv$  |           | -+            | $\dashv$ | -1        |
| <del> </del>                                     | 11       | 0            | <del></del> | $\vdash$           | $\dashv$  | $\dashv$ |          | $\dashv$ |   |       |              | 61<br>62  | $\vdash$        | +        | +        | +       | +       | +       | +-      | $\vdash\vdash$ |       |             | 111<br>112 | $\vdash$     | $\vdash$        |                |          | +         | -         | +             | $\dashv$ | $\dashv$  |
| $\vdash\vdash\vdash$                             | 13       | 0            | +           | $\vdash$           | $\dashv$  | $\dashv$ |          | $\dashv$ |   |       |              | 63        | $\vdash$        | $\dashv$ | +        | +       | +       | +       | +       | $\vdash$       |       |             | 113        | <del> </del> | Н               | $\dashv$       | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$      | $\dashv$ | $\dashv$  |
| $\vdash \vdash$                                  | 14       | 6            |             | H                  | $\dashv$  | $\dashv$ | -        | $\dashv$ |   |       |              | 64        | $\vdash$        | $\dashv$ | $\dashv$ | +       | ╅       | +-      | +       | $\vdash$       |       | _           | 114        | $\vdash$     | $\vdash$        |                |          | $\dashv$  | $\dashv$  | $\dashv$      | $\dashv$ | $\dashv$  |
|  | 15       | 0            | $\vdash$    | H                  | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |   |       |              | 65        | $\vdash \vdash$ | $\dashv$ | $\dashv$ | +       | +       | +       | +-      | Н              |       |             | 115        |              | Н               | -              | $\dashv$ | $\dashv$  |           | $\dashv$      | 十        | $\dashv$  |
|  | 16       | V            | 1           |                    | _         | $\dashv$ | $\dashv$ | $\dashv$ |   |       |              | 66        |                 | 十        | $\dashv$ | $\top$  | $\top$  | $\top$  | $\top$  | П              |       | <b></b>     | 116        |              | Н               |                |          | $\dashv$  | -         | $\dashv$      | 十        | ㅓ         |
|  | 17       | ₹            |             |                    |           |          |          |          |   |       |              | 67        |                 |          |          |         | 丁       | $\top$  | $\top$  |                |       |             | 117        |              | П               |                |          | $\exists$ | $\neg$    | $\dashv$      | 寸        | $\exists$ |
|  | 18       | √            |             |                    |           |          |          |          |   |       |              | 68        |                 |          |          | $\top$  | $\top$  |         |         |                |       |             | 118        |              | П               | 1              |          |           |           | $\Box$        | T        |           |
|  | 19       | 0            |             |                    |           |          |          |          |   |       |              | 69        |                 |          |          |         |         |         |         |                |       |             | 119        |              |                 |                |          |           |           | $\Box$        | $\Box$   |           |
|  | 20       | 0            | $\perp$     | Ш                  | _         |          | _        |          |   |       |              | 70        | Ш               |          |          | $\perp$ |         |         | Ш       |                |       |             | 120        |              | Ш               |                |          |           |           |               |          | $\Box$    |
|  | À        | <u> </u>     | $\perp$     | Ш                  | _         | _        | _        | $\perp$  |   |       |              | 71        | Ш               | $\perp$  | $\perp$  | $\perp$ | $\perp$ |         | 1_      |                |       |             | 121        |              | Ш               |                |          | _         | _         | _             | _        |           |
|  | 202      | _            |             |                    | _         | _        | _        | $\dashv$ |   |       |              | 72        | Н               | _        | 4        | $\bot$  | $\bot$  | 4       | $\perp$ | Ц              |       |             | 122        | <u> </u>     |                 |                |          | _         | _         | 4             | $\dashv$ | _         |
| <b>  </b>  | 28       | <del> </del> |             | $\vdash$           | -         | $\dashv$ | -        | $\dashv$ |   |       |              | 73        | $\vdash$        | $\dashv$ | 4        | +       | -       | -       | 1       | $\dashv$       |       |             | 123        |              | Н               |                | _        |           | _         | $\dashv$      | -        | 4         |
|  | 26       |              |             | ╁╾┧                | -         | $\dashv$ |          | +        |   |       | ļ            | 74<br>75  | $\vdash \vdash$ | $\dashv$ | $\dashv$ | +       | +       | +       | +       | Н              |       |             | 124<br>125 | -            | Н               | $\dashv$       | _        | $\dashv$  | $\dashv$  | $\dashv$      | $\dashv$ | $\dashv$  |
| <del>                                     </del> | 26       |              |             | ╁╾┼                | -         | $\dashv$ | $\dashv$ | +        |   |       |              | 76        | Н               | +        | +        | +       | ╌       | ╁       | +       | Н              |       |             | 126        | -            | Н               | $\dot{\dashv}$ | -        | $\dashv$  | $\dashv$  | $\dashv$      | $\dashv$ | $\dashv$  |
| $\vdash$   | 2×       |              | $\vdash$    | ╁                  | $\dashv$  | +        | $\dashv$ | $\dashv$ |   |       |              | 77        | Н               | $\dashv$ | +        | +       | +       | +       | +       | Н              |       |             | 127        | $\vdash$     | Н               |                |          | $\dashv$  | _         | $\dashv$      | $\dashv$ | $\dashv$  |
|  | 28.      | _            |             | $\vdash$           | 一         |          |          |          |   |       |              | 78        | H               | ╅        | 十        | +       | +       | 十       | $\top$  | $\dashv$       |       |             | 128        | -            | Н               |                | $\dashv$ | _         | $\neg$    | $\dashv$      | 寸        | ヿ         |
|  | 29.      | _            |             | П                  | $\neg$    | 7        |          |          |   |       |              | 79        | П               | 7        | T        | $\top$  | $\top$  | $\top$  |         | Н              |       |             | 129        |              |                 | $\neg$         | $\neg$   | $\dashv$  | $\neg$    | 十             | 寸        | ┨         |
|  | 30       |              |             | П                  | $\exists$ | 寸        | $\neg$   | $\neg$   |   |       |              | 80        | П               | $\top$   | $\top$   | 1       |         |         | $\top$  | П              |       |             | 130        |              |                 |                |          | $\neg$    | $\exists$ | ヿ             | $\dashv$ | ヿ         |
|  | 31       | 7            |             |                    |           |          |          |          |   |       |              | 81        |                 |          |          | $\top$  |         |         |         |                |       |             | 131        |              |                 |                |          |           |           |               |          | $\Box$    |
|  | 32       | 4            |             | Ш                  |           |          |          |          |   |       |              | 82        |                 |          |          |         |         |         |         |                |       |             | 132        |              | $\Box$          |                |          |           |           |               | $\Box$   |           |
|  | 33       | 1            |             | Ш                  | _         | _        |          | _        |   |       |              | 83        | Ш               | _        | 4        | 4       | _       |         | $\perp$ | Ш              |       |             | 133        |              |                 |                | _        | _         |           | 4             | $\dashv$ | _         |
| <b> </b>   | 34       | 0            | -           |                    | _         | _        | _        | _        | _ |       |              | 84        | $\vdash \vdash$ | _        | 4        | +       | 4       | 4       | $\perp$ | Щ              |       |             | 134        | <u> </u>     | $\square$       | _              | _        | _         | 4         | $\dashv$      | $\dashv$ | $\dashv$  |
| <b> </b>   | 35       | 1            | $\dashv$    | $\left  - \right $ | -         | $\dashv$ | $\dashv$ | $\dashv$ | _ |       | <u> </u>     | 85        | $\vdash$        | .        | - -      | +       | +       | +       | +       | Н              |       |             | 135        | <u> </u>     | $\vdash \vdash$ | $\dashv$       | $\dashv$ | $\dashv$  | 4         | $\dashv$      | $\dashv$ | $\dashv$  |
|  | 36<br>37 | 1            | +           | $\left  - \right $ | -         | $\dashv$ | $\dashv$ | $\dashv$ |   |       | <b></b> -    | 86<br>87  | $\vdash \vdash$ | $\dashv$ |          | +       |         | +       | +       | Н              |       |             | 136<br>137 | <del> </del> | Н               |                |          | $\dashv$  | $\dashv$  | $\dashv$      | $\dashv$ | $\dashv$  |
|  | 38       | 0            | +           | H                  | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |   |       |              | 88        | $\vdash \vdash$ | $\dashv$ | +        | +       |         | +       | +       | $\vdash\vdash$ |       | <del></del> | 137        | <del> </del> | $\vdash \vdash$ |                | -        | $\dashv$  | $\dashv$  | $\dashv$      | $\dashv$ | $\dashv$  |
|  | 39       | 7            | +           | $\vdash \vdash$    | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ |   |       | <del> </del> | 89        | $\vdash$        | _        | +        | +       | ┰       | +-      | +       | $\vdash\vdash$ |       | <u> </u>    | 139        |              | Н               | $\dashv$       | -        | $\dashv$  | $\dashv$  | $\dashv$      | $\dashv$ | $\dashv$  |
|  | 40       | i            | +           | $\vdash \vdash$    | $\dashv$  | $\dashv$ | -        | $\dashv$ |   |       |              | 90        | $\vdash \vdash$ | +        | +        | +       | +       | +-      | +       | Н              |       |             | 140        | $\vdash$     | H               | $\dashv$       | $\dashv$ | $\dashv$  |           | $\dashv$      | $\dashv$ | -         |
|  | 41       | 1            |             | $\Box$             | 7         | $\dashv$ | _        | ╮┪       |   |       |              | 91        | H               | $\dashv$ | $\top$   | +       | +       | ╅       | П       | Н              |       | l           | 141        |              | H               | $\exists$      |          | $\dashv$  | 7         | $\dashv$      | 十        | $\dashv$  |
|  | 42       | Ю            |             |                    | 二         |          |          | _†       |   |       |              | 92        | П               | $\neg$   | $\top$   | $\top$  | $\top$  | $\top$  | $\top$  | $\square$      |       |             | 142        |              | П               |                |          | $\dashv$  |           | $\top$        | $\dashv$ | $\dashv$  |
|  | 43       | 1            |             |                    |           |          |          |          |   |       |              | 93        |                 |          |          |         |         | $\perp$ |         |                |       |             | 143        |              |                 |                |          | $\Box$    |           | 丁             | ⇉        |           |
|  | 44       | 1            |             | П                  | $\Box$    | $\Box$   | $\Box$   | 耳        |   |       |              | 94        |                 |          | Ţ        | $\perp$ | $\Box$  | Ţ       |         |                |       |             | 144        |              |                 |                |          |           |           | $\Box$        |          |           |
|  | 45       | 1            |             | Ш                  | _         |          |          | _        | _ |       |              | 95        | Ш               | $\perp$  | $\perp$  |         | $\perp$ | $\perp$ | $\perp$ | Ш              |       | <u> </u>    | 145        | L            | Ш               | _]             | [        | [         |           | $\bot$        | $\bot$   | _         |
| <u> </u>   | 46       | 1            | 1           | $\sqcup$           | _         | _        |          | _        |   |       |              | 96        | Ш               | 4        | 4        | $\bot$  | _       | _       | $\perp$ | Ш              |       |             | 146        |              | $\sqcup$        | _              |          |           | _         | ightharpoonup | 4        | _         |
| <b>  </b>  | 47       | 1            | -           | $\vdash$           | _         | -        | _        | _        |   |       |              | 97        | $\vdash$        | $\dashv$ | +        | +       | 4       |         | +       | Щ              |       |             | 147        | $oxed{oxed}$ | $\sqcup$        | _              | _        | $\dashv$  | _         | $\dashv$      | 4        | $\dashv$  |
| $\vdash \vdash \vdash$                           | 48       | 1            |             | $\vdash$           | -         |          |          |          | _ |       |              | 98        | $\vdash \vdash$ | +        | +        | +       | -       | +-      | +       | Н              |       |             | 148        | _            | $\vdash \vdash$ | $\dashv$       |          | _         | _         | -             | -        | _         |
| $\vdash \vdash \vdash$                           | 49<br>50 |              |             | $\vdash$           |           | -+       |          | $\dashv$ | _ |       |              | 99<br>100 | ┞╌┤             | +        |          | +       | +       | +       | +       | $\vdash$       |       |             | 149        |              | $\mid - \mid$   | _              |          | -         | -         | $\dashv$      | -        | 4         |
| لــــا   | 30       |              |             | ш                  | !         | _1       |          | 1        |   | ::::: |              | 100       | Щ               |          |          | $\perp$ |         |         | $\perp$ | Ш              | ::::: | Щ.          | 150        |              |                 |                |          |           |           |               |          | ┙         |